08h15 – 09h00 Welcome

10h00 – 10h30 Coffee Break

10h30 – 12h00 Doctoral Programme Amphi Bosco

- ***Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control***, Boon Ping Lim, Hassan Hijazi, Sylvie Thiebaux and Menkes van Den Briel
- ***Evaluation of New Branching Heuristic for Tie-breaking***, Seongsoo Moon and Mary Inaba
- ***SABIO: An Implementation of MIP and CP for Interactive Soccer Queries***, Robinson Duque, Juan Francisco Diaz and Alejandro Arbelaez
- ***Using CP and ILP with tree decomposition to solve the sum colouring problem***, Maël Minot, Samba Ndojh Ndiaye and Christine Solnon
- ***Systematic Derivation of Bounds and Glue Constraints for Time-Series Constraints***, Ekaterina Arafailova, Nicolas Beldiceanu, Mats Carlsson, Pierre Flener, Maria Andreina Francisco Rodriguez, Justin Pearson and Helmut Simonis
- ***Symbolic reasoning for constraint solvers with arrays***, Quentin Plazar, Sebastien Bardin, Arnaud Gotlieb and Mathieu Acher
- ***A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes***, Kyle E. C. Booth, Goldie Nejat and Chris Beck
- ***An Exact Algorithm for Unicost Set Covering***, Emir Demirović, Nysret Musliu, Katsumi Inoue and Théo Le Calvar
- ***Morphing between Stable Matching Problems***, Ciaran McCreesh, Patrick Prosser and James Trimble
- ***An adaptive parallel SAT solver***, Nicolas Szczepanski, Jean-Marie Lagniez, Sebastien Tabary and Gilles Audemard

12h00 – 13h30 Lunch Break

13h30 – 15h00 | Doctoral Programme | Amphi Bosco

- Invited talk: Louis-Martin Rousseau
- ***A Monte Carlo Large Neighbourhood Search for Vehicle Routing Problems***, Katharina Glock, Anne Meyer and Guido Tack
- ***Studying parallel communication strategies with POSL***, Alejandro Reyes Amaro, Eric Monfroy and Florian Richoux
- ***An Interval Filtering Operator for Upper and Lower Bounding in Constrained Global Optimization***, Olivier Sans, Remi Coletta and Gilles Trombettoni

15h00 – 15h30 | Coffee Break

15h30 – 17h30 | Doctoral Programme | Amphi Bosco

- ***A Portfolio Approach for Enforcing Minimality in a Tree Decomposition***, Daniel J. Geschwender, Robert J. Woodward, Berthe Y. Choueiry and Stephen D. Scott
- ***Mining frequent patterns using CP: a comparative study***, Valentin Lemière, Yann Dauxais, Patrice Boizumault and Arnaud Lallouet
- ***Learning parameters for the Sequence constraint from positive examples***, Emilie Picard-Cantin, Mathieu Bouchard, Claude-Guy Quimper and Jason Sweeney
- ***Constraint Programming for Strictly Convex Integer Quadratically-Constrained Problems***, Wen-Yang Ku and Chris Beck
- ***Constraint Programming For Mining Partially Ordered Motifs***, Vincent Vigneron, David Lesaint, Barry Hurley, Deepak Mehta and Barry O'sullivan
- ***A global constraint for closed itemset mining***, Nadjib Lazaar, Yahia Lebbah, Samir Loudni, Mehdi Maamar, Valentin Lemiere, Christian Bessiere and Patrice Boizumault
- ***Debugging Unsatisfiable Constraint Models***, Kevin Leo and Guido Tack
- ***A Bounded Path Propagator on Directed Graphs***, Diego de Uña, Graeme Gange, Peter Schachte and Peter J. Stuckey
- ***Multiple Constraint Acquisition***, Robin Arcangioli, Christian Bessiere and Nadjib Lazaar
- ***A DP-based MCMC Framework for Solving DCOPs with GPUs***, Ferdinando Fioretto, Enrico Pontelli and William Yeoh
- ***Synchronous Space Programming***, Pierre Talbot, Carlos Agon and Philippe Esling
- ***Clique and Constraint Models for Maximum Common (Connected) Subgraph Problems***, Ciaran McCreesh, Samba Ndojh Ndiaye, Patrick Prosser and Christine Solnon
- ***Embarrassingly Parallel Search Reengineered***, Guillaume Derval, Pierre Schaus and Jean-Charles Régin

20h00 – 23h00 | Doctoral Programme Dinner

Other events

Monday 05 September

17h45 – 18h45	*ACP challenge* – Pierre Schaus	Grand Amphi
17h30 – 19h30	Toulbar2 Projects Meeting	B151

- ***Brief overview of toulbar2 solver*** Simon de Givry
- ***Global cost functions (master branch) and set variables*** Jimmy H.M. Lee
- ***Using CP and ILP with tree decomposition to solve the sum colouring problem*** Maël Minot
- ***Triangle-based Consistencies for Cost Function Networks*** Hiep Nguyen
- ***Parallel strategies for Decomposition Guided VNS*** Abdelkader Ouali
- ***MiniBrass - extending MiniZinc with soft constraints*** Alexander Schiendorfer

Monday 05 September

09h00 – 17h30 — CP meets Verification — B202

- Invited talk – *Challenges of Program Verification with SPARK*: ***Yannick Moy***
- ***Mixing Polyedra and Boxes Abstract Domain for Constraint Solving***, Marie Pelleau, Emmanuel Rauzy, Ghiles Ziat, Charlotte Truchet, Antoine Miné.

10h00 – 10h30 — Coffee Break

- Invited talk – *Model-Constructing Satisfiabilty Calculus*: ***Dejan Jovanovic***
- Invited talk – *Optimization Modelling for Software Developers, or How to convert procedural code to constraints!*: ***Peter Stuckey***
- ***An Improved Constraint Programming Model for Parametric Interval Markov Chain Verification***, Anicet Bart, Benoît Delahaye, Éric Monfroy, Charlotte Truchet

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12h00 – 13h30 — Lunch Break

- Invited talk – *Constraint Satisfaction over Bit-Vectors*: ***Laurent Michel***
- ***Tight coupling between bit-vector and integer domains can surpass bit-blasting SMT solvers***, Zakaria Chihani
- ***On Finding program input values maximizing the rounding-off error***, Mohammed Said Belaid, Claude Michel, Yahia Lebbah, Michel Rueher

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15h00 – 15h30 — Coffee Break

- Invited talk – *The use of Constraint Programming in the testing and analysis of a telecommunications protocol*: ***Justin Pearson***
- Invited talk – *Network Verification: When less is more, but not always*: ***Andrey Rybalchenko***
- ***F-CPminer* : A new approach for fault localization using constraint-based data mining***, Mehdi Maamar, Noureddine Aribi, Nadjib Lazaar, Yahia Lebbah, Samir Loudni
- Discussions.

- Alessandro Dal Palù, Agostino Dovier, Andrea Formisano, Alberto Policriti, Enrico Pontelli. ***Logic Programming Applied to Genome Evolution in Cancer***
- Katinka Becker, Martin Gebser, Torsten Schaub and Alexander Bockmayr. ***Answer Set Programming for Logical Analysis of Data***

10h00 – 10h30 Coffee Break

- Louis Fippo Fitime, Olivier Roux, Carito Guziolowski and Loïc Paulevé. ***Identification of Bifurcations in Biological Regulatory Networks using Answer-Set Programming***
- Jean-Marc Alliot, Martín Diéguez and Luis Farinas del Cerro. ***Metabolic Pathways as Temporal Logic Programs***
- Martin Morterol, Philippe Dague, Sabine Peres and Laurent Simon. ***Minimality of Metabolic Flux Modes under Boolean Regulation Constraints***

12h00 – 13h30 Lunch Break

- Clément Viricel, David Simoncini, Thomas Schiex and Sophie Barbe. ***Guaranteed Weighted Counting for Affinity Computation: beyond Determinism and Structure (CP2016 paper)***
- Maryana Wånggren, Martin Billeter, and Graham Kemp. ***Computational protein modelling based on limited sets of constraints***
- Ludwig Krippahl and Pedro Barahona. ***Improving protein docking with redundancy constraints (CP2016 paper)***

15h00 – 15h30 Coffee Break

- Sebastien François, Rumen Andonov, Hristo Djidjev and Dominique Lavenier. ***Global Optimization Methods for Genome Scaffolding***
- Eric Bourreau, Annie Chateau, Clément Dallard and Rodolphe Giroudeau. ***A Graph Constraints Formulation for Contigs Scaffolding***
- WCB16 Concluding Remarks

10h30 – 16h30 | Constraint Modelling and Reformulation | B102

- G. Schenner and R. Taupe. ***Encoding Object-oriented Models in MiniZinc***
- K. Leo and G. Tack. ***Debugging Unsatisfiable Constraint Models***
- G. Perez and J.-C. Regin. ***Building efficient soft and cost MDD constraints***

12h00 – 13h30 | Lunch Break

- W. Sawangphol, Y.-F. Li, and G. Tack. ***CP4DL: Constraint-based Reasoning for Expressive Description Logics***
- M. Codish, M. Frank, and V. Lagoon. ***DNA Word Design: A New Constraint Model and New Results***
- Z. Erraji, A. Hakkou, A. Benamrane, I. Benelallam, and El H. Bouyakhf. ***A Distributed Constraint Reasoning Approach Towards Intelligent Marketplace Environment***

15h00 – 15h30 | Coffee Break

- V. Armant and K. N. Brown. ***Reformulation of Drivers' Fixed Path Constraints in Rideshare-ing Problems***
- S. D. Prestwich, S. A. Tarim, and R. Rossi. ***Constraint Problem Specification as Compression***

13h30 – 17h30 | CP and AI | B203

- *Introduction:* Eugene Freuder
- *Invited Talk:* ***From Constraint Programming to Probabilistic Programming to Approximate Programming: Observations and Thoughts*** Rina Dechter
- *Position paper*: ***Graphical models, an articulation point between Constraint Programming & Machine Learning*** Thomas Schiex
- *Abstract*: ***Stochastic Constraint Programming and Reinforcement Learning*** Steven Prestwich, Roberto Rossi and Armagan Tarim
- *Abstract*: ***Empirical Model Learning, and the integration of machine learning models in CP*** Tias Guns, Michele Lombardi, Michela Milano and Pascal Van Hentenryck
- *Position Paper*: ***Explanations for Human-Aware CP*** Eugene Freuder

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15h00 – 15h30 | Coffee Break

- *Abstract*: ***Exact Solution Counting for Artificial Intelligence based on Decomposition of Constraint Networks*** Philippe Jégou, Hanan Kanso and Cyril Terrioux
- *Position paper*: ***Declarative Programming in Artificial Intelligence*** Siegfried Nijssen
- *Position paper*: ***Towards ethical agents in Distributed Constraints Reasoning*** Ghizlane El Khattabi, Benelallam Imade, Bouyakhf El Houssine and Rajae Haouari
- *Abstract*: ***Success Stories of CP in Data Mining*** Tias Guns
- *Position paper*: ***CP and AI — Promoting and Publicizing*** Eugene Freuder
- *Discussion*: ***Promoting and Publicizing CP for AI and CP as AI — and Vice Versa***

09h00 – 18h00 | Configuration | B104

- ***Welcome***
- ***Recommendation for product configuration: an experimental evaluation***. Hélène Fargier, Pierre-François Gimenez and Jérôme Mengin.
- ***Recommending and Configuring Smart Home Installations***. Gerhard Leitner, Alexander Felfernig, Seda Polat Erdeniz, Arda Akcay, Anthon Fercher, Klaus Isak and Michael Jeran.

10h00 – 10h30 Coffee Break

- ***Concurrent configuration of product and process : moving towards ETO and dealing with uncertainties***. Sylla Abdourahim, Élise Vareilles, Michel Aldanondo, Thierry Coudert, Laurent Geneste and Paul Pitiot.
- ***Assessing configurator user need for social interation during the product configuration process***. Chiara Grosso, Cipriano Forza and Alessio Trentin.
- ***Improved Performance and Quality of Configuration Systems by Receiving Real-Time Information from Suppliers***. Katrin Kristjansdottir, Sara Shafiee, Martin Bonev, Lars Hvam, Morten Hugo Bennick and Christian S. Andersen.

12h00 – 13h30 Lunch Break

- ***Deriving Tighter Component Cardinality Bounds for Product Configuration***. Richard Taupe, Andreas Falkner and Gottfried Schenner.
- ***Automatic Configuration of Hybrid Mathematical Models***. Michael Barry and René Schumann.
- ***Solving the Partner Units Configuration Problem with Heuristic Constraint Answer Set Programming***. Erich Teppan.

15h00 – 15h30 Coffee Break

- ***Towards Group-Based Configuration***. Alexander Felfernig, Müslüm Atas, Trang Tran and Martin Stettinger.
- ***Towards Configuration Technologies for IoT Gateway***. Alexander Felfernig, Seda Polat Erdeniz, Arda Akcay, Paolo Azzoni and Charalampos Doukas.
- ***Towards Modularization and Configuration of Services – Current Challenges and Difficulties***. Thorsten Krebs and Aleksander Lubarski.
- ***Determining New Components for Open Configuration***. Linda Zhang and Xiaoyu Chen.
- Future Configuration Challenges and next Edition (CWS2017)

20h00 – 23h00 Configuration Workshop Dinner

Tuesday 06 September

09h00 – 12h00 | Configuration | B104

- ***Benchmark for configuration and planning optimization problems: Proposition of a generic model***. Paul Pitiot, Luis Ignacio Garcés Monge, Élise Vareilles and Michel Aldanondo.
- ***Optimal Feature Selection via Evolutionary Algorithms and Constraint Solving***. Yibo Wang and Lothar Hotz.

10h00 – 10h30 | Coffee Break

- ***Interactive Configuration of Insulating Envelopes***. Andrés Felipe Barco Santa, Élise Vareilles, Michel Aldanondo and Philippe Chantry.
- ***StudyBattles: A Learning Environment for Knowledge-based Configuration***. Alexander Felfernig, Amal Shehadeh, Christian Guetl, Michael Jeran, Trang Tran, Müslüm Atas, Seda Polat Erdeniz, Martin Stettinger, Arda Akcay and Stefan Reiterer.
- ***Finding pre-production vehicle planning using Max-SAT framework***. Marcel Tiepelt and Tilak Raj Singh.
- CWS Best Paper Award and Conclusion

Conference

Tuesday 06 September

08h00 – 08h45 Welcome coffee

08h00 – 08h45 Registration

08h45 – 09h00 *Welcome address* – Michel Rueher & Thomas Schiex Grand Amphi

09h00 – 10h00 Invited talk: *Optimizing preferences and social welfare in healthcare-related matching problems* – David Manlove Grand Amphi

10h00 – 10h30 Coffee Break

10h30 – 12h10 Application Session (1) Amphi Bosco

- Emmanuel Hebrard, Marie-José Huguet, Daniel Veysseire, Ludivine Boche Sauvan and Bertrand Cabon. ***Constraint Programming for Planning Test Campaigns of Telecommunication Satellites***
- Xavier Lorca, Charles Prud'Homme, Aurélien Questel and Benoît Rottembourg. ***Using Constraint Programming for the Urban Transit Crew Rescheduling Problem***
- Stefano Di Alesio. ***Optimal Performance Tuning in Real-Time Systems using Multi-Objective Constrained Optimization***
- Feifei Ma, Xin Gao, Minghao Yin, Linjie Pan, Jiwei Jin, Hai Liu and Jian Zhang. ***SymOptimizing Shortwave Radio Broadcast Resource Allocation via Pseudo-Boolean Constraint Solving and Local Search***

10h30 – 12h10 Technical Session (1): Theory Grand Amphi

- David Cohen and Peter Jeavons. ***The Power of Propagation: When GAC is Enough***
- Dominik Scheder, Timon Hertli, Isabelle Hurbain, Sebastian Millius, Robin Moser and May Szedlak. ***The PPSZ Algorithm for Constraint Satisfaction Problems on More Than Two Colors***
- Martin Cooper, Achref El Mouelhi and Cyril Terrioux. ***Broken Triangles, Yet Again***
- Robert Ganian, Ramanujan M. S. and Stefan Szeider. ***Backdoors to Tractable Valued CSP***

12h10 – 13h40 Lunch

13h40 – 14h40 Tutorial: *Constraint Programming in Music* – Charlotte Truchet Amphi Bosco

13h40 – 14h40 Tutorial: *Topics in Computational Sustainability* – Carla Gomes Grand Amphi

14h40 – 15h30 Music Session (1) Amphi Bosco

- Pierre Roy, Guillaume Perez, Jean-Charles Regin, Alexandre Papadopoulos, Francois Pachet and Marco Marchini. ***Enforcing Structure on Temporal Sequences: the Allen Constraint***
- Alexandre Papadopoulos, Pierre Roy and Francois Pachet. ***Assisted Lead Sheet Composition using FlowComposer***

14h40 – 15h30 Computational Sustainability Session Grand Amphi

- Yexiang Xue, Ian Davies, Daniel Fink, Christopher Wood and Carla Gomes. ***Behavior Identification in Two-stage Games for Incentivizing Citizen Science Exploration***
- Boon Ping Lim, Hassan Hijazi, Sylvie Thiebaux and Menkes Van Den Briel. ***Online HVAC-Aware Occupancy Scheduling with Adaptive Temperature Control***

15h30 – 16h00 Coffee Break

16h00 – 16h50 | Music Session (2) | Amphi Bosco

- John Hooker. ***Finding Alternative Musical Scales***
- Tsubasa Tanaka, Brian Bemman and David Meredith. ***Constraint programming formulation of the problem of generating Milton Babbitt's all-partition arrays***

16h00 – 16h50 | Technical Session (2): MaxSAT | Grand Amphi

- Jack Goffinet and Raghuram Ramanujan. ***Monte-Carlo Tree Search for the Maximum Satisfiability Problem***
- Xujie Si, Xin Zhang, Vasco Manquinho, Mikolas Janota, Alexey Ignatiev and Mayur Naik. ***On Incremental Core-Guided MaxSAT Solving***

16h50 – 17h40 | Technical Session (3): Global constraints | Grand Amphi

- Jordan Demeulenaere, Renaud Hartert, Christophe Lecoutre, Guillaume Perez, Laurent Perron, Jean-Charles Régin and Pierre Schaus. ***Compact-Table: efficiently filtering table constraints with reversible sparse bit-sets***
- Nadjib Lazaar, Yahia Lebbah, Samir Loudni, Mehdi Maamar, Valentin Lemière, Christian Bessiere and Patrice Boizumault. ***A global constraint for closed itemset mining***

16h50 – 17h40 | Journal-First and Sister Conferences Session (1): Symmetries | Amphi Bosco

- Jimmy Lee and Zichen Zhu. ***Boosting SBDS for Partial Symmetry Breaking in Constraint Programming***
- Jimmy Lee and Zichen Zhu. ***Breaking More Composition Symmetries Using Search Heuristics***

18h30 – 20h00 | Welcome Reception

20h30 – 23h00 | Executive Commitee ACP dinner

Conference

Wednesday 07 September

08h15 – 09h00 Registration

08h45 – 09h45 Invited talk: *Horn Constraints for Software Verification and Synthesis* – Andrey Rybalchenko — Grand Amphi

09h45 – 10h15 Coffee Break

10h15 – 11h15 Tutorial: *Social Choice* – Francesca Rossi, K. Brent Venable, Toby Walsh — Amphi Bosco

10h15 – 11h15 Tutorial: *Automated Program Analysis and Verification* – Andreas Podelski — Grand Amphi

11h15 – 12h05 Testing and Verification Session — Grand Amphi

- Xiaojun Sun, Irina Ilioaea, Priyank Kalla and Florian Enescu. ***Finding Unsatisfiable Cores of a Set of Polynomials using the Groebner Basis Algorithm***
- Merav Aharoni, Yael Ben-Haim, Shai Doron, Anatoly Koyfman, Elena Tsanko and Michael Veksler. ***Using Graph-Based CSP to Solve the Address Translation Problem***

11h15 – 12h05 Preferences, Social Choice, and Constraints Session — Amphi Bosco

- Ferdinando Fioretto, William Yeoh and Enrico Pontelli. ***A Dynamic Programming-based MCMC Framework for Solving DCOPs with GPUs***
- Ciaran McCreesh, Patrick Prosser and James Trimble. ***Morphing between Stable Matching Problems***

12h05 – 13h35 Lunch

13h35 – 14h50 Application Session (2) — Grand Amphi

- Vincent Goulet, Wei Li, Hyunmin Cheong, Francesco Iorio and Claude-Guy Quimper. ***Four-Bar Linkage Synthesis Using Non-Convex Optimization***
- Robinson Duque, Alejandro Arbelaez and Juan Francisco Díaz. ***SABIO: An Implementation of MIP and CP for Interactive Soccer Queries***
- Samir Sebbah, Claire Bagley, Mike Colena and Serdar Kadioglu. ***Service Availability Optimization in Cloud-Based In-Memory Data Grids***

13h35 – 14h50 Journal-First and Sister Conferences session (2): Consistencies — Amphi Bosco

- Martin Cooper and Stanislav Živný. ***The Power of Arc Consistency for CSPs Defined by Partially-Ordered Forbidden Patterns***
- Chavalit Likitvivatanavong, Wei Xia and Roland H. C. Yap. ***Decomposition of the Factor Encoding for CSPs***
- Christophe Lecoutre, Chavalit Likitvivatanavong and Roland Yap. ***STR3: A Path-Optimal Filtering Algorithm for Table Constraints***

14h50 – 15h20 Coffee Break

15h20 – 16h35 | Technical Session (4): Theory | Grand Amphi

- Joshua Blinkhorn and Olaf Beyersdorff. ***Dependency Schemes in QBF Calculi: Semantics and Soundness***
- Michael Codish, Graeme Gange, Avi Itzhakov and Peter J. Stuckey. ***Breaking Symmetries in Graphs: The Nauty Way***
- David Bergman and André Augusto Ciré. ***Multiobjective Optimization by Decision Diagrams***

15h20 – 16h35 | Technical Session (5): Global constraints, learning | Amphi Bosco

- Clément Carbonnel and Emmanuel Hebrard. ***Constraint Propagation via Kernelization***
- Ekaterina Arafailova, Nicolas Beldiceanu, Mats Carlsson, Pierre Flener, Maria Andreina Francisco Rodriguez, Justin Pearson and Helmut Simonis. ***Systematic Derivation of Bounds and Glue Constraints for Time-Series Constraints***
- Emilie Picard-Cantin, Mathieu Bouchard, Claude-Guy Quimper and Jason Sweeney. ***Learning parameters for the Sequence constraint from positive examples***

16h35 – 17h25 | Technical Session (6): SAT | Grand Amphi

- Jeremias Berg and Matti Järvisalo. ***Impact of SAT-Based Preprocessing on Core-Guided MaxSAT Solving***
- Gilles Audemard, Jean Marie Lagniez, Nicolas Szczepanski and Sebastien Tabary. ***An adaptive parallel SAT solver***

16h35 – 17h25 | Technical Session (7): Parallelism, temporal constraints | Amphi Bosco

- Anthony Palmieri, Jean-Charles Régin and Pierre Schaus. ***Parallel Strategies Selection Strategy, strategy selection, algorithm selection, parallelism***
- Luke Hunsberger and Roberto Posenato. ***A New Approach to Checking the Dynamic Consistency of Conditional Simple Temporal Networks***

17h25 – 17h40 | CP'2017 & CPAIOR'2017 presentation | Grand Amphi

17h40 – 19h00 | ACP General Assembly | Grand Amphi

20h00 – 23h00 | Senior PC Dinner

Conference

Thursday 08 September

08h15 – 09h00 Registration

08h45 – 09h45 Invited talk: *Optimization and Control in the Smart Grid and Beyond* – Zico Kolter — Grand Amphi

09h45 – 10h15 Coffee Break

10h15 – 12h00 Best Papers — Grand Amphi

- Krishnamurthy Dvijotham, Pascal Van Hentenryck, Michael Chertkov, Sidhant Misra and Marc Vuffray. ***Graphical models for optimal power flow***
- David Manlove, Iain McBride and James Trimble. ***'Almost-stable' matchings in the Hospitals / Residents problem with Couples***
- Clément Carbonnel. ***The Dichotomy for Conservative Constraint Satisfaction is Polynomially Decidable***
- Kyle E. C. Booth, Goldie Nejat and J. Christopher Beck. ***A Constraint Programming Approach to Multi-Robot Task Allocation and Scheduling in Retirement Homes***

12h00 – 13h30 Lunch

13h30 – 14h20 CP and Biology Session — Grand Amphi

- Clément Viricel, David Simoncini, Thomas Schiex and Sophie Barbe. ***Guaranteed Weighted Counting for Affinity Computation: beyond Determinism and Structure***
- Ludwig Krippahl and Pedro Barahona. ***Improving protein docking with redundancy constraints***

13h30 – 14h20 Application Session (3) — Amphi Bosco

- Katherine Giles and Willem-Jan Van Hoeve. ***Solving a Supply-Delivery Scheduling Problem with Constraint Programming***
- David Gerault, Marine Minier and Christine Solnon. ***Constraint Programming Models for Chosen Key Differential Cryptanalysis***

14h20 – 14h45 *Doctoral Research Award* – André Augusto Ciré — Grand Amphi

14h45 – 15h00 *Distinguished Service Award* – Thomas Schiex — Grand Amphi

15h00 – 18h00 Social Program: visit of Toulouse

15h00 – 18h00 Social Program: A380 assembly line visit

20h00 – 23h30 Conference Dinner

Conference

Friday 09 September

09h00 – 10h00 | Invited talk: *Evidence-Based Optimization of Complex Infrastructures* – Pascal Van Hentenryck | Grand Amphi

10h00 – 10h30 | Coffee Break

10h30 – 11h45 | Technical Session (8): Scheduling | Grand Amphi

- Alessio Bonfietti, Michele Lombardi, Alessandro Zanarini and Michela Milano. ***The Multirate Resource Constraint***
- Andreas Schutt and Peter J. Stuckey. ***Explaining Producer/Consumer Constraints***
- Sascha Van Cauwelaert, Cyrille Dejemeppe, Jean-Noël Monette and Pierre Schaus. ***Efficient Filtering for the Unary Resource with Family-based Transition Times***

11h45 – 12h10 | MiniZinc challenge | Grand Amphi

10h30 – 12h10 | Journal-First and Sister Conferences session (3): MIP, relaxations | Amphi Bosco

- Giovanni Di Liberto, Serdar Kadioglu, Kevin Leo and Yuri Malitsky. ***DASH: Dynamic Approach for Switching Heuristics***
- Cristinca Fulga. ***AHP based portfolio selection with risk preference modeling***
- Kyle E. C. Booth, Tony T. Tran, Goldie Nejat and Chris Beck. ***Mixed-Integer and Constraint Programming Techniques for Mobile Robot Task Planning***
- Adrian Weller, Mark Rowland and David Sontag. ***Tightness of LP relaxations for almost balanced models***

12h10 – 13h40 | (Packed) Lunch

13h40 – 15h20 | Technical Session (9): Modelling, MIP | Grand Amphi

- Harsha Nagarajan, Mowen Lu, Emre Yamangil and Russell Bent. ***Tightening McCormick Relaxations for Nonlinear Programs via Dynamic Multivariate Partitioning***
- Wen-Yang Ku and Chris Beck. ***Constraint Programming for Strictly Convex Integer Quadratically-Constrained Problems***
- Ciaran McCreesh, Samba Ndojh Ndiaye, Patrick Prosser and Christine Solnon. ***Clique and Constraint Models for Maximum Common (Connected) Subgraph Problems***
- Gleb Belov, Peter Stuckey, Guido Tack and Mark Wallace. ***Improved Linearization of Constraint Programming Models***

13h40 – 15h20 | Technical Session (10): Learning, decomposition | Amphi Bosco

- Thibaut Feydy and Peter J. Stuckey. ***Interval Constraint with Learning : Application to Air Traffic Control***
- Maxim Shishmarev, Christopher Mears, Maria Garcia De La Banda and Guido Tack. ***Learning from Learning Solvers***
- Philippe Jégou, Hanan Kanso and Cyril Terrioux, ***Towards a Dynamic Decomposition of CSPs with Separators of Bounded Size***
- Diego de Uña, Graeme Gange, Peter Schachte and Peter J. Stuckey. ***A Bounded Path Propagator on Directed Graphs***

15h30 – 16h20 | Technical Session (11): SAT, SMT | Grand Amphi

- Alexey Ignatiev, Alessandro Previti and Joao Marques-Silva. ***On Finding Minimum Satisfying Assignments***
- Ozgur Akgun, Ian Gent, Christopher Jefferson, Ian Miguel and Peter Nightingale. ***Exploiting Short Supports for Improved Encoding of Arbitrary Constraints into SAT***

15h30 – 16h20 | Technical Session (12): scheduling | Amphi Bosco

- Alexander Tesch. ***A Nearly Exact Propagation Algorithm for Energetic Reasoning in $O(n^2 \cdot \log n)$***
- Ria Szeredi and Andreas Schutt. ***Modelling and Solving Multi-Mode Resource-Constrained Project Scheduling***

16h20 – 17h00 | Farewell coffee

Conference

Saturday 10 September

09h30 – 18h00 | CSPLib Sprint | Room 133